Amendments to the Claims:

This Listing of Claims will replace all prior versions and listings of claims in the Application:

Listing of Claims:

- 1. (Currently Amended) An electrochemiluminescence cell comprising:
- a working electrode and a counter electrode, wherein at least one of said electrodes comprises a platinum alloy comprising:
 - a first predetermined weight percent of platinum; and
- a second predetermined weight percent of <u>iridium</u> an element other than platinum or rhodium;

wherein said first predetermined weight percent is from 70% to 90% greater than zero and wherein said second predetermined weight percent is from [[5]] 10% to [[50]] 30%; and

 a light detector and/or a transparent portion of said cell in optical registration with said working electrode;

wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.

- 2. (Currently Amended) The cell of claim 1, wherein the working electrode and the counter electrode each comprise a platinum alloy comprising:
 - a first predetermined weight percent of platinum; and
 - a second predetermined weight percent of iridium;

and the first predetermined weight percent is from 70% to 90% and the second predetermined weight percent is from 10% to 30% said-element is chosen from Ni, Pd, Co, Fe, Ru, Os, Cr, Mo, Zn, Nb, Ir, and W.

- 3.-4. (Canceled).
- (Currently Amended) The cell of claim 1 [[4]], wherein at a pH in the range 6.5 to 8.0 at at least one of said electrodes, tripropylamine is oxidized at a lower potential than water.

 (Previously Presented) The cell of claim 5, wherein at 1.3 V (vs. Ag/AgCl) the current density at at least one of said electrodes for the oxidation of tripropylamine is at least twice as large as the current density at said electrode for the oxidation of water.

(Canceled).

 (Previously Presented) The cell of claim 6, wherein the working electrode is for generating electrochemiluminescence.

(Canceled).

- (Previously Presented) The cell of claim 8, further comprising
 a support, attached to said counter electrode, having a transparent portion in optical registration with said working electrode.
- (Original) The cell of claim 10, wherein said counter electrode comprises at least one field extending element interposed between said transparent portion and said working electrode.
- (Original) The cell of claim 11 wherein said working electrode is capable of inducing a ruthenium-tris-bipyridine moiety to electrochemiluminesce in the presence of tripropylamine.
- (Original) The cell of claim 12, further comprising a magnet adjacent said working electrode to collect magnetizable particles thereon.
 - 14. (Original) The cell of claim 13, wherein said cell is a flow cell.
 - 15. (Original) The cell of claim 14, further comprising a reference electrode.
- (Original) The cell of claim 15, further comprising a light detector for detecting electrochemiluminescence generated in said cell.
 - 17. (Original) The cell of claim 16, wherein said light detector is a photodiode.

- (Original) The cell of claim 17, further comprising a source of electrical energy coupled to said electrodes.
- (Original) The electrochemiluminescence cell of claim 18, wherein said source of electrical energy is a potentiostat.

20.-24. (Canceled).

25. (Currently Amended) An electrochemiluminescenee <u>The</u> cell <u>of claim 1, wherein</u> the comprising:

a working electrode:

[[a]] counter electrode having comprises a field extending element, wherein the counter electrode is not a mesh or screen; and

a support, optionally attached to said counter electrode, having a transparent portion in optical registration with said working electrode; and wherein said field extending element is interposed between said transparent portion of said support and said working electrode.

wherein the field extending element reduces the electrochemiluminescence incident upon said transparent portion by an amount greater than 0% and less than 50%; and wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.

- (Original) The cell of claim 25, wherein said field extending element traverses said transparent portion.
- (Original) The cell of claim 25, wherein said field extending element comprises a ladder electrode.
 - (Canceled).
- (Previously Presented) The cell of claim 25, wherein said field extending element comprises projections that form an interdigitated array.

- (Original) The cell of claim 29, wherein the current path aspect ratio is less than
 2.5.
- (Currently Amended) <u>The cell of claim 1, further comprising</u> -An electrochemiluminescence assay apparatus comprising:

a working electrode:

a counter electrode:

a support, optionally attached to said counter electrode, having a transparent portion in optical registration with said working electrode;

a light detector in optical registration with said working electrode, said light detector being positioned closer to said counter electrode than said working electrode; and

a source of electrical energy, coupled to said electrodes, capable of maintaining said counter electrode at a substantially constant ground potential or at a potential that does not vary relative to a potential of said light detector.: and

wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.

- (Currently Amended) The apparatus cell of claim 31, wherein said source of electrical energy is a potentiostat.
- (Currently Amended) The apparatus cell of claim [[32]] 64, further comprising a
 magnet adjacent said working electrode to collect magnetizable particles thereon.
- 34. (Currently Amended) The apparatus cell of claim [[33]] 64, wherein the working electrode and the counter electrode each comprise a platinum alloy comprising a first weight percent of platinum of approximately 80% and a second weight percent of rhodium of approximately 20% said apparatus comprises an electrochemituminescence flow cell.
- 35. (Currently Amended) The apparatus cell of claim [[34]] 64, further comprising a reference electrode

- (Currently Amended) The apparatus cell of claim [[35]] 64, wherein said light detector is a photodiode.
- (Currently Amended) A method of conducting an electrochemiluminescence assay, the method comprising the steps of: providing an electrochemiluminescence cell, said cell comprising:
 - a working electrode and a counter electrode, wherein at least one of said electrodes comprises a platinum alloy comprising:
 - a first predetermined weight percent of platinum; and
 - a second predetermined weight percent of iridium an element other than

platinum;

wherein said first predetermined weight percent is from 70% to 90% greater than zero and wherein said second predetermined weight percent is from [[5]] 10% to [[50]] 30%; and

 a light detector and/or a transparent portion of said cell in optical registration with said working electrode;

wherein the counter electrode is disposed between the working electrode and the light detector and/or the transparent portion; and

inducing electrochemiluminescence in the cell.

- 38. (Currently Amended) The method of claim 37, wherein the working electrode and the counter electrode each comprise a platinum alloy comprising:
 - a first predetermined weight percent of platinum; and
 - a second predetermined weight percent of iridium;

and the first predetermined weight percent is from 70% to 90% and the second predetermined weight percent is from 10% to 30% said element is chosen from Ni, Pd, Co, Fe, Ru, Os, Cr, Mo, Zn, Nb, Ir, Rh and W.

39.-41 (Canceled).

- (Currently Amended) The method of claim [[40]] 38, wherein said working electrode is for generating electrochemiluminescence.
 - 43. (Previously Presented) The method of claim 42, further comprising the steps of:
 - a. forming a composition comprising an electrochemiluminescence label and
 an electrochemiluminescence coreactant:
 - b. positioning said composition at said electrode;
 - c. applying electrical energy to said electrode to induce said

electrochemiluminescence label to electrochemiluminesce; and

- d. measuring an emitted electrochemiluminescence.
- (Previously Presented) The method of claim 43, wherein said electrochemiluminescence label is an organometallic complex.
- (Previously Presented) The method of claim 44, wherein said organometallic complex is a polypyridyl complex of Ru or Os.
- (Previously Presented) The method of claim 44, wherein said organometallic complex comprises a ruthenium-tris-bipyridine moiety.
- (Previously Presented) The method of claim 46, wherein said
 electrochemiluminescence coreactant is a molecule capable of being oxidized to produce a strong reductant.
- 48. (Previously Presented) The method of claim 47, wherein said electrochemiluminescence coreactant is a tertiary amine.
- (Previously Presented) The method of claim 48, wherein said tertiary amine is tripropylamine.
- (Previously Presented) The method of claim 49, further comprising the step of collecting a magnetizable particle on said working electrode.

- (Previously Presented) The method of claim 50, wherein said electrochemiluminescence label is present on said magnetizable particle.
- (Previously Presented) The method of claim 51, further comprising the step of cleaning said working electrode by applying electrical energy to said working electrode.
- (Previously Presented) The method of claim 52, wherein
 electrochemiluminescence is induced within an electrochemiluminescence flow cell.

54.-61. (Canceled).

- 62. (Previously Presented) An electrochemiluminescence cell comprising:
- a working electrode and a counter electrode, wherein at least one of said electrodes comprises a platinum alloy comprising:
 - a first weight percent of platinum of approximately 90%; and
 - a second weight percent of iridium of approximately 10%;
- a light detector and/or a transparent portion of said cell in optical registration with said working electrode;

wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.

- 63. (Previously Presented) An electrochemiluminescence cell comprising:
- a working electrode and a counter electrode, wherein at least one of said electrodes comprises a platinum alloy comprising:
 - a first weight percent of platinum of approximately 70%; and
 - a second weight percent of iridium of approximately 30%;
- a light detector and/or a transparent portion of said cell in optical registration with said working electrode;

wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.

- 64. (Previously Presented) An electrochemiluminescence cell comprising:
- a working electrode and a counter electrode, wherein at least one of said electrodes comprises a platinum alloy comprising:
 - a first weight percent of platinum of approximately 80%; and
 - a second weight percent of rhodium of approximately 20%;
- b. a light detector and/or a transparent portion of said cell in optical registration with said working electrode;

wherein the counter electrode is disposed adjacent to the working electrode and the light detector and/or the transparent portion.